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SECTION II – PRIVILEGED COMMUNICATION

BIOGRAPHICAL SKETCH

(Give the following information for all professional personnel listed on page 3, beginning with the Principal Investigator. Use continuation pages and follow the same general format for each person.)

NAME	TITLE	BIRTHDATE (Mo., Day, Yr.)
William F. Benedict, M.D.	Assistant Professor of Pediatrics Hematology & Cytogenetics	R
PLACE OF BIRTH (City, State, Country)	**PRESENT NATIONALITY (If non-U.S. citizen, indicate kind of visa and expiration date)**	**SEX**
REDACTED		☒ Male ☐ Female

EDUCATION *(Begin with baccalaureate training and include postdoctoral)*

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	SCIENTIFIC FIELD
Drew University, Madison, New Jersey	BS	R	Zoology
Albany Medical College, Albany, N.Y.	MD	1968	Medicine
Childrens Hospital of L.A., L.A. Cal.	Intern	1969	Pediatrics
Albany Medical College, Albany, N.Y.	Resident	1970	Pediatrics
NICHD, Bethesda, Maryland	Post. Doc.	1970-72	Genetics & Carcinogenesis

HONORS

Recently named Research Consultant to the Birth Defects Institute of New York State.

MAJOR RESEARCH INTEREST	ROLE IN PROPOSED PROJECT
Carcinogenesis & Cytogenetics	Principal Investigator

RESEARCH SUPPORT *(See instructions)*

Grant No.	Title of Project
CA-14226	Malignant Transformation of DNA Inhibitors and Cell Cycle Specificity

Amt. for Curr. Yr.	Amt. for Proj. Per.	Time or Effort % Hrs.	Source
$45,900	$120,701	75%	NCI

RESEARCH AND/OR PROFESSIONAL EXPERIENCE *(Starting with present position, list training and experience relevant to area of project. List all or most representative publications. Do not exceed 3 pages for each individual.)*

For the past two years I have been doing post doctorate training in the Department of Developmental Pharmacology at the National Institute of Child Health and Human Development under the direction of Dr. Daniel Nebert.

My research has included studies in hamster fetal cultures on the relationship of polycyclic hydrocarbon produced cytotoxicity, transformation and chromosomal aberrations (7,8). I have also studied hydrocarbon-produced tumorigenesis in aryl hydroxylase inducible and non-inducible strain of mice and their appropriate hybrids using phorbol ester as a promoting agent (10). Finally I have investigated the genetic expression of aryl hydrocarbon hydroxylase induction in hybrid cells found between inducible and non-inducible parental cells (9,12,13,16).

During my year of pediatric residence at the Albany Medical Center I continued my studies with Dr. Ian Porter, Professor of Pediatrics and Director, Birth Defects Institute of New York State on the cytogenetic diagnosis of malignancy in effusions and solid tumors (1,3,5,6). While a resident I also spent three months at the Children's Hospital of Los Angeles as an Oncology Fellow continuing the work I had begun with Dr. Myron Karon, Head, Division of Hematology, on DNA synthetic inhibitors, cell cycle specificity and chromosomal breakage in hamster cells (2,4,11), while I was a pediatric intern at the Los Angeles Children's Hospital.

All four years as a medical student I spent a significant amount of time with Dr. Porter studying chromosomes in malignant and undiagnosed effusion and solid tumors, showing that cytogenetics could be used as a diagnostic procedure.

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PUBLICATIONS

1. Porter, I.H., Benedict, W.F., Brown, C.D. and Paul, B., Recent Advances in Molecular Pathology: A Review-Some Aspects of Chromosome Changes in Cancer, Exp. Mol. Path., 11, 340-367, (1969).

2. Benedict, W.F., Harris, N. and Karon, M., Kinetics of 1-B-D-Arabinofuranosyl Cytosine-Induced Chromosome Breaks, Cancer Res., 30, 2477-2483 (1970).

3. Benedict, W.F., Porter, I.H., Brown, C.D. and Florentin, R.A., Cytogenetic Diagnosis of Malignancy in Recurrent Meningioma, Lancet, 971-973 (1970).

4. Benedict, W.F. and Karon, M., Chromatid Breakage: Cytosine Arabinoside-Induced Lesions by Ultraviolet Irradiation, Science, 171, 680-682 (1971).

5. Benedict, W.F., Brown, C.D. and Porter, I.H., Long Acrocentric Chromosomes in Malignant Effusions and Solid Tumors, New York J. Med., 9, 952-955 (1971).

6. Benedict, W.F., Porter, I.H. and Brown, C.D., The Cytogenetic Diagnosis of Malignancy in Effusions, Acta Cytol., 16, 304-306, (1972).

7. Benedict, W.F., Gielen, J.E. and Nebert, D.W., Polycyclic Hydrocarbon-produced Toxicity, Transformation, and Chromosomal Aberrations as a Function of Aryl Hydrocarbon Hydroxylase Activity in Cell Cultures, Int. J. Cancer, 9, 435-451, 1972.

8. Benedict, W.F., Rapid Production of Numerical and Structural Abnormalities in Hamster Cells by Transforming Doses of Polycyclic Hydrocarbons, J. Natl. Cancer Inst., 49, 585-590, (1972).

9. Benedict, W.F., Nebert, D.W. and Thompson, E.B., Expression of Aryl Hydrocarbon Induction and Suppression of Tyrosine Aminotransferase Induction in Somatic-cell Hybrids, Proc. Nat. Acad. Sci., U.S.A., 69, 2179-2183, (1972).

10. Nebert, W.W., Benedict, W.F., Gielen, J.E., Oesch, F. and Daly, J.W., Aryl Hydrocarbon Hydroxylase, Epoxide Hydrase, and 7,12-Dimethylbenz (a) athracene-produced Skin Tumorigenesis in the Mouse, Mol. Pharm., 8, 374-379 (1972).

11. Karon, M. and Benedict, W.F., Chromatid Breakage: Differential Effect of Inhibitors of DNA Synthesis on G_2 Science, 178, 62, (1972).

12. Benedict, W.F., Paul, B. and Nebert, D.W., Expression of Aryl Hydroxylase in Mouse-Hamster and Mouse-Man Hybrids, Biochem. Biophys Res. Comm., 48, 293-298, (1972).

13. Benedict, W.F., Considine, N., and Nebert, D.W., Genetic Differences in Aryl Hydrocarbon Hydrozylase Induction and Benzo (a) pyrene- produced Tumorigenisis In The Mouse, Mol. Pharm. (In press).

14. Karon, M., Benedict, W.F. and Rucker, N., Mechanism of 1-Beta-D Arabinofuranosylcytosine Induced Cell Lethality, Cancer Res., 32, 2612-2615, (1972).

15. Paul B., Benedict, W.F., and Porter, I.H., Giemsa Banding In An Established Line of a Human Malignant Meningioma, Humangenetik. (In press)

16. Nebert, D.W., Benedict, W.F., and Kouri, R., Aromatic Hydrocarbon-Produced Tumorigenesis and The Genetic Differences in Aryl Hydrocarbon Induction, World Symposium on Chemical Carcinogenesis. (In Press).

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LETTERS AND ABSTRACTS

Benedict, W.F., Brown, C.D. and Porter, I. H., Marker Chromosomes in Malignancy with Particular Reference to a Long Acrocentric Chromosome, Amer. Soc. Human Genet., December, 1967.

Porter, I.H., Brown, C.D., and Benedict, W.F., Diagnosis of Malignancy in Effusions by Chromosome Analysis, Amer. Soc. Human Genet., December, 1967.

Benedict, W.F., Brown, C.D. and Porter I.H., Chromosomes in Effusions, Lancet I, 1146, 1967.

Benedict, W.F., Porter, I.H., Brown, C.D. and Doyle, G.J., Chromosomes in Malignancy, Lancet I, 922, 1968.

Benedict, W.F., Rosen, W.C., Brown, C.D. and Porter, I.H., Chromosomal Aberrations in an Ovarian Cystadenoma, Lancet II, 640,1969.

Benedict, W.F., and Karon, M., Mechanism of Cytosine Arabinoside Induced cell Lethality. 10th International Cancer Congress, 1970.

Karon, M. and Benedict, W.F., Arabinosylcytosine Induced Chromosome Breakage and the Cell Cycle, Clinical Research, 1970.

Karon, M. and Benedict, W.F., Locus of Action of DNA Inhibitors in the Cell Cycle as Assessed by Chromatid Breakage, Blood, 36, 825, 1970 (Abstract #3).

Benedict, W.F., Nebert, D.W. and Thompson, E.B., Expression of Aryl Hydrocarbon Hydroxylase and Tyrosine a-Ketoglutarate Transaminase Activities in Mouse-Rat Hybrids, Fed. Proc., April, 1972.

Benedict, W.F., Gielen, J.E. and Nebert, D.W., Inducible Aryl Hydrocarbon Hydroxylase and 7,12-Dimethylbenz(a)anthracene-produced Skin Tumorigenesis in the Mouse, Amer. Assoc. of Cancer Res., May, 1972 (Abstract #481).

Karon, M. and Benedict, W.F., Comparative Pharmacology of Chromatid Breakage: The Effect of Various DNA Inhibitors, Amer. Assoc. of Cancer Res., May, 1972 (Abstract #202).

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